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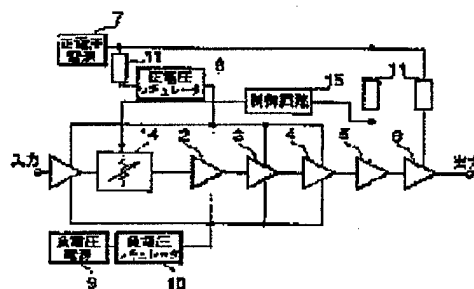
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(54) HIGH FREQUENCY AMPLIFIER

(57)Abstract:

PROBLEM TO BE SOLVED: To suppress spurious in an amplifier circuit owing to power noise by providing a variable attenuator and a control circuit amplifying the noise component of power supplied to a high output amplifier circuit to an appropriate level and inputting it to the variable attenuator.

SOLUTION: The control circuit 15 controls the variable attenuator 14. The control circuit 15 monitors the drain voltage of the high output amplifier circuit, removes a DC component by a capacitor, extracts only the noise component of power and inversely amplifies it. A power noise signal which is amplified to the appropriate level and becomes an opposite phase in the control circuit 15 is inputted to the variable attenuator 14. The phase of the variable attenuator becomes opposite to that of power noise with a typical value as a center and attenuation quantity fluctuates. When power noise fluctuates to a '+' side, the variable attenuator operates in a direction where attenuation quantity is increased and power voltage increases in the high output amplifier circuit. Thus, the gain increases. The effects are compensated, amplitude modulation owing to power noise is suppressed and spuriousness can be reduced.



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